

Angostura EIS Annual Summary Analysis for future Years 1998-2042

Table 1 - Angostura Unit Historic Annual Water Supply

Angostura Reservoir with 10,458 average irrigated acres and minimum elevation of 3163.0 feet

Hist. Year	Historic Inflow (cfs)	EOM Content (kaf)	EOM Elev. (Feet)	Total Disch. (cfs)	River Disch. (cfs)	Canal Disch. (cfs)	Canal req. based on 12,000 acres				Canal req. based on 10,000 acres			
							Canal Req. (cfs)	Irr. Short (cfs)	Irr. Short (kaf)	Irr. Short (%)	Canal Req. (cfs)	Irr. Short (cfs)	Irr. Short (kaf)	Irr. Short (%)
1953	88.4	110.8	3175.77	102.6	102.6	0.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1954	57.8	104.5	3174.11	49.7	49.7	0.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1955	213.7	143.2	3183.39	133.4	88.1	45.3	56.9	-11.6	-8.4	-20%	46.6	-1.3	-0.9	-3%
1956	58.3	122.3	3178.34	124.9	45.6	79.4	62.4	0.0	0.0	0%	51.1	0.0	0.0	0%
1957	211.8	128.1	3179.83	153.0	90.9	62.1	53.7	0.0	0.0	0%	44.0	0.0	0.0	0%
1958	139.6	131.4	3180.84	143.3	62.3	81.0	61.9	0.0	0.0	0%	50.7	0.0	0.0	0%
1959	51.0	104.0	3173.68	86.5	9.7	76.8	66.0	0.0	0.0	0%	54.0	0.0	0.0	0%
1960	37.5	84.1	3167.85	48.3	0.2	48.1	78.3	-30.2	-21.8	-39%	64.1	-16.0	-11.6	-25%
1961	26.1	74.4	3164.86	16.5	0.1	16.4	68.2	-51.8	-37.5	-76%	55.8	-39.4	-28.5	-71%
1962	562.7	127.4	3179.28	457.1	406.7	50.4	50.8	0.0	0.0	0%	41.6	0.0	0.0	0%
1963	127.2	147.6	3184.58	122.5	68.3	54.2	55.0	0.0	0.0	0%	45.0	0.0	0.0	0%
1964	67.5	136.3	3182.00	74.6	10.0	64.6	67.0	-2.4	-1.7	-4%	54.8	0.0	0.0	0%
1965	179.9	144.0	3183.75	135.4	89.4	46.0	48.3	-2.2	-1.6	-5%	39.5	0.0	0.0	0%
1966	63.6	145.2	3185.19	75.8	17.6	58.2	63.0	-4.8	-3.5	-8%	51.5	0.0	0.0	0%
1967	243.4	127.6	3184.67	252.1	200.5	51.5	53.5	-2.0	-1.4	-4%	43.8	0.0	0.0	0%
1968	95.7	124.2	3183.93	76.5	25.0	51.5	46.5	0.0	0.0	0%	38.1	0.0	0.0	0%
1969	128.8	124.8	3184.06	122.9	59.2	63.7	64.4	0.0	0.0	0%	52.7	0.0	0.0	0%
1970	44.6	115.3	3181.67	55.6	0.7	54.9	69.2	-14.3	-10.4	-21%	56.6	-1.7	-1.3	-3%
1971	263.8	115.5	3181.78	239.3	182.9	56.5	56.7	0.0	0.0	0%	46.4	0.0	0.0	0%
1972	70.4	119.4	3182.74	58.8	0.4	58.4	50.3	0.0	0.0	0%	41.2	0.0	0.0	0%
1973	107.3	121.3	3183.25	69.1	7.8	61.3	53.9	0.0	0.0	0%	44.1	0.0	0.0	0%
1974	58.7	112.4	3180.88	95.3	29.4	65.9	61.3	0.0	0.0	0%	50.2	0.0	0.0	0%
1975	67.4	102.0	3178.38	58.5	-0.1	58.6	59.8	-1.2	-0.8	-2%	48.9	0.0	0.0	0%
1976	61.3	97.5	3177.27	52.4	0.1	52.3	55.1	-2.7	-2.0	-5%	45.1	0.0	0.0	0%
1977	47.4	87.2	3174.34	55.1	0.0	55.0	54.3	0.0	0.0	0%	44.5	0.0	0.0	0%
1978	394.1	124.0	3183.64	311.4	246.8	64.5	57.0	0.0	0.0	0%	46.6	0.0	0.0	0%
1979	95.1	131.8	3185.63	86.3	27.4	58.9	54.4	0.0	0.0	0%	44.5	0.0	0.0	0%
1980	63.2	117.4	3182.13	91.2	25.1	66.1	65.0	0.0	0.0	0%	53.2	0.0	0.0	0%
1981	48.9	90.9	3175.94	71.4	-0.1	71.5	58.8	0.0	0.0	0%	48.1	0.0	0.0	0%
1982	149.7	106.9	3181.36	76.4	27.1	49.3	45.5	0.0	0.0	0%	37.2	0.0	0.0	0%
1983	72.9	117.0	3183.97	83.9	28.3	55.7	59.1	-3.4	-2.5	-6%	48.4	0.0	0.0	0%
1984	143.6	112.1	3182.74	140.5	84.9	55.6	57.6	-1.9	-1.4	-3%	47.1	0.0	0.0	0%
1985	37.4	87.7	3176.16	66.2	0.2	66.0	65.0	0.0	0.0	0%	53.2	0.0	0.0	0%
1986	201.8	112.9	3182.82	120.4	74.9	45.5	56.4	-11.0	-7.9	-19%	46.2	0.0	0.0	0%
1987	107.8	113.0	3182.90	131.1	76.7	54.3	64.7	-10.3	-7.5	-16%	52.9	0.0	0.0	0%
1988	31.6	84.2	3175.16	62.1	1.9	60.2	60.7	0.0	0.0	0%	49.7	0.0	0.0	0%
1989	38.6	67.9	3170.20	36.0	2.7	33.3	64.6	-31.3	-22.7	-48%	52.9	-19.6	-14.2	-37%
1990	48.5	69.6	3170.80	40.5	5.6	34.9	61.3	-26.4	-19.1	-43%	50.2	-15.3	-11.1	-31%
1991	288.1	97.6	3178.75	223.4	181.0	42.4	52.0	-9.6	-6.9	-18%	42.5	0.0	0.0	0%
1992	33.6	98.5	3179.30	49.9	0.8	49.2	42.8	0.0	0.0	0%	35.0	0.0	0.0	0%
1993	156.4	116.9	3183.90	100.6	54.4	46.2	32.7	0.0	0.0	0%	26.7	0.0	0.0	0%
1994	92.1	107.9	3181.59	118.2	58.8	59.4	66.6	-7.2	-5.2	-11%	54.5	0.0	0.0	0%
1995	104.5	105.0	3180.97	82.6	31.1	51.5	47.2	0.0	0.0	0%	38.6	0.0	0.0	0%
1996	115.9	108.2	3181.74	105.8	49.4	56.4	50.3	0.0	0.0	0%	41.2	0.0	0.0	0%
1997	257.9	122.9	3185.34	211.6	172.8	38.8	41.0	-2.2	-1.6	-5%	33.5	0.0	0.0	0%
Mean	123.5	112.1	3179.81	112.6	59.9	55.2	57.2	-5.3	-3.8	-8%	46.8	-2.2	-1.6	-4%
Min	26.1	67.9	3164.86	16.5	-0.1	16.4	32.7	(51.8)	(37.5)	-76%	26.7	(39.4)	(28.5)	-71%
10 pctlile	38.0	85.4	3173.85	49.8	0.2	43.0	46.6	(13.8)	(10.0)	-21%	38.2	(1.7)	(1.2)	-3%
50 pctlile	57.8	102.0	3177.27	62.1	2.7	49.3	52.7	(4.1)	(3.0)	-7%	43.2	0.0	0.0	0%
Median	92.1	113.0	3181.59	86.5	29.4	55.6	57.0	0.0	0.0	0%	46.6	0.0	0.0	0%
90 pctlile	149.7	134.2	3183.39	131.1	76.7	61.7	63.7	0.0	0.0	0%	52.1	0.0	0.0	0%
95 pctlile	252.1	124.5	3184.37	218.7	177.7	66.1	66.5	0.0	0.0	0%	54.4	0.0	0.0	0%
Max	562.7	147.6	3185.63	457.1	406.7	81.0	78.3	0.0	0.0	0%	64.1	0.0	0.0	0%

Table 2 - Natural Flow Annual Water Supply
Angostura Reservoir with no irrigated acres and minimum elevation of 3157.2 feet

Hist. Year	Fut. Year	Historic Inflow (cfs)	EOM Content (kaf)	EOM Elev. (Feet)	Total Disch. (cfs)	River Disch. (cfs)	Canal Disch. (cfs)	Canal Req. (cfs)	Irr. Short (cfs)	Irr. Short (kaf)	Irr. Short (%)
1953	1998	88.4	23.7	3158.03	82.8	82.8	0.0	N/A	N/A	N/A	N/A
1954	1999	57.8	23.2	3158.09	54.2	54.2	0.0	N/A	N/A	N/A	N/A
1955	2000	213.7	22.7	3158.17	210.2	210.2	0.0	N/A	N/A	N/A	N/A
1956	2001	58.3	22.1	3158.12	55.0	55.0	0.0	N/A	N/A	N/A	N/A
1957	2002	211.8	21.8	3158.31	208.4	208.4	0.0	N/A	N/A	N/A	N/A
1958	2003	139.6	21.2	3158.31	136.4	136.4	0.0	N/A	N/A	N/A	N/A
1959	2004	51.0	20.8	3158.43	47.7	47.7	0.0	N/A	N/A	N/A	N/A
1960	2005	37.5	20.4	3158.55	34.1	34.1	0.0	N/A	N/A	N/A	N/A
1961	2006	26.1	19.9	3158.63	22.8	22.8	0.0	N/A	N/A	N/A	N/A
1962	2007	562.7	19.4	3158.71	559.5	559.5	0.0	N/A	N/A	N/A	N/A
1963	2008	127.2	19.0	3158.81	123.7	123.7	0.0	N/A	N/A	N/A	N/A
1964	2009	67.5	18.0	3158.52	64.3	64.3	0.0	N/A	N/A	N/A	N/A
1965	2010	179.9	18.1	3158.90	176.8	176.8	0.0	N/A	N/A	N/A	N/A
1966	2011	63.6	17.4	3158.92	78.4	78.4	0.0	N/A	N/A	N/A	N/A
1967	2012	243.4	16.6	3158.64	221.9	221.9	0.0	N/A	N/A	N/A	N/A
1968	2013	95.7	16.7	3159.05	92.7	92.7	0.0	N/A	N/A	N/A	N/A
1969	2014	128.8	16.2	3159.05	126.2	126.2	0.0	N/A	N/A	N/A	N/A
1970	2015	44.6	15.4	3158.87	42.0	42.0	0.0	N/A	N/A	N/A	N/A
1971	2016	263.8	15.3	3159.15	261.0	261.0	0.0	N/A	N/A	N/A	N/A
1972	2017	70.4	14.8	3159.18	67.8	67.8	0.0	N/A	N/A	N/A	N/A
1973	2018	107.3	14.3	3159.21	104.7	104.7	0.0	N/A	N/A	N/A	N/A
1974	2019	58.7	13.7	3159.12	56.0	56.0	0.0	N/A	N/A	N/A	N/A
1975	2020	67.4	13.3	3159.23	65.0	65.0	0.0	N/A	N/A	N/A	N/A
1976	2021	61.3	12.9	3159.34	58.8	58.8	0.0	N/A	N/A	N/A	N/A
1977	2022	47.4	12.5	3159.38	44.8	44.8	0.0	N/A	N/A	N/A	N/A
1978	2023	394.1	12.0	3159.41	391.6	391.6	0.0	N/A	N/A	N/A	N/A
1979	2024	95.1	11.5	3159.41	92.6	92.6	0.0	N/A	N/A	N/A	N/A
1980	2025	63.2	11.0	3159.36	60.9	60.9	0.0	N/A	N/A	N/A	N/A
1981	2026	48.9	10.3	3159.18	46.8	46.8	0.0	N/A	N/A	N/A	N/A
1982	2027	149.7	10.1	3159.47	147.5	147.5	0.0	N/A	N/A	N/A	N/A
1983	2028	72.9	9.6	3159.49	70.5	70.5	0.0	N/A	N/A	N/A	N/A
1984	2029	143.6	9.2	3159.51	141.4	141.4	0.0	N/A	N/A	N/A	N/A
1985	2030	37.4	8.7	3159.38	35.3	35.3	0.0	N/A	N/A	N/A	N/A
1986	2031	201.8	8.3	3159.39	199.7	199.7	0.0	N/A	N/A	N/A	N/A
1987	2032	107.8	7.8	3159.34	105.9	105.9	0.0	N/A	N/A	N/A	N/A
1988	2033	31.6	7.3	3159.29	29.8	29.8	0.0	N/A	N/A	N/A	N/A
1989	2034	38.6	6.9	3159.22	36.8	36.8	0.0	N/A	N/A	N/A	N/A
1990	2035	48.5	6.4	3159.15	46.6	46.6	0.0	N/A	N/A	N/A	N/A
1991	2036	288.1	5.9	3159.09	286.6	286.6	0.0	N/A	N/A	N/A	N/A
1992	2037	33.6	5.4	3159.00	32.0	32.0	0.0	N/A	N/A	N/A	N/A
1993	2038	156.4	5.0	3158.94	155.1	155.1	0.0	N/A	N/A	N/A	N/A
1994	2039	92.1	4.5	3158.88	90.7	90.7	0.0	N/A	N/A	N/A	N/A
1995	2040	104.5	4.0	3158.75	103.2	103.2	0.0	N/A	N/A	N/A	N/A
1996	2041	115.9	3.5	3158.30	114.6	114.6	0.0	N/A	N/A	N/A	N/A
1997	2042	257.9	3.1	3158.09	249.4	249.4	0.0	N/A	N/A	N/A	N/A
Mean		123.5	13.3	3158.92	120.7	120.7	0.0	N/A	N/A	N/A	N/A
Min		26.1	3.1	3158.03	22.8	22.8	0.0	N/A	N/A	N/A	N/A
10 pctl		38.0	5.2	3158.22	35.9	35.9	0.0	N/A	N/A	N/A	N/A
25 pctl		57.8	8.3	3158.63	54.2	54.2	0.0	N/A	N/A	N/A	N/A
Median		92.1	13.3	3159.05	90.7	90.7	0.0	N/A	N/A	N/A	N/A
75 pctl		149.7	18.1	3159.29	147.5	147.5	0.0	N/A	N/A	N/A	N/A
90 pctl		252.1	21.6	3159.40	238.4	238.4	0.0	N/A	N/A	N/A	N/A
Max		562.7	23.7	3159.51	559.5	559.5	0.0	N/A	N/A	N/A	N/A

Table 3 - No Action Annual Water Supply
Angostura Reservoir with 12,218 irrigated acres and minimum elevation of 3163.0 feet

Hist. Year	Fut. Year	Historic Inflow (cfs)	EOM Content (kaf)	EOM Elev. (Feet)	Total Disch. (cfs)	River Disch. (cfs)	Canal Disch. (cfs)	Canal Req. (cfs)	Irr. Short (cfs)	Irr. Short (kaf)	Irr. Short (%)
1953	1998	88.4	100.2	3184.55	113.5	47.6	65.9	66.6	0.0	0.0	0%
1954	1999	57.8	80.0	3179.54	77.6	3.3	74.2	74.7	0.0	0.0	0%
1955	2000	213.7	97.1	3184.16	154.2	97.9	56.4	56.9	0.0	0.0	0%
1956	2001	58.3	91.7	3182.99	81.9	20.0	61.9	62.4	0.0	0.0	0%
1957	2002	211.8	91.2	3183.19	176.1	123.0	53.2	53.7	0.0	0.0	0%
1958	2003	139.6	99.6	3185.37	126.3	65.0	61.4	61.9	0.0	0.0	0%
1959	2004	51.0	87.0	3182.46	68.6	3.3	65.3	66.0	0.0	0.0	0%
1960	2005	37.5	58.8	3174.13	80.9	3.3	77.6	78.3	0.0	0.0	0%
1961	2006	26.1	32.7	3165.34	27.6	3.3	24.3	68.2	-43.9	-31.8	-64%
1962	2007	562.7	76.4	3179.55	471.4	421.2	50.2	50.8	0.0	0.0	0%
1963	2008	127.2	90.9	3184.36	128.4	73.9	54.5	55.0	0.0	0.0	0%
1964	2009	67.5	76.6	3180.96	81.9	15.6	66.2	67.0	0.0	0.0	0%
1965	2010	179.9	84.4	3183.17	134.3	86.3	48.0	48.3	0.0	0.0	0%
1966	2011	63.6	81.7	3182.76	82.9	20.5	62.4	63.0	0.0	0.0	0%
1967	2012	243.4	83.7	3183.52	211.9	159.3	52.6	53.5	0.0	0.0	0%
1968	2013	95.7	85.9	3184.30	84.9	39.0	45.8	46.5	0.0	0.0	0%
1969	2014	128.8	83.7	3183.94	126.4	62.5	63.8	64.4	0.0	0.0	0%
1970	2015	44.6	66.2	3179.29	71.7	3.3	68.4	69.2	0.0	0.0	0%
1971	2016	263.8	70.0	3180.85	223.2	167.0	56.3	56.7	0.0	0.0	0%
1972	2017	70.4	77.9	3183.22	57.8	8.0	49.8	50.3	0.0	0.0	0%
1973	2018	107.3	78.7	3183.70	81.7	28.1	53.6	53.9	0.0	0.0	0%
1974	2019	58.7	67.5	3180.60	93.3	32.5	60.7	61.3	0.0	0.0	0%
1975	2020	67.4	56.2	3177.93	62.4	3.3	59.1	59.8	0.0	0.0	0%
1976	2021	61.3	49.4	3176.27	58.0	3.3	54.6	55.1	0.0	0.0	0%
1977	2022	47.4	37.2	3172.04	57.3	3.3	54.0	54.3	0.0	0.0	0%
1978	2023	394.1	74.3	3183.24	321.6	265.1	56.6	57.0	0.0	0.0	0%
1979	2024	95.1	79.4	3185.27	86.9	32.7	54.2	54.4	0.0	0.0	0%
1980	2025	63.2	65.3	3181.68	86.5	22.0	64.5	65.0	0.0	0.0	0%
1981	2026	48.9	43.2	3175.54	61.9	3.3	58.6	58.8	0.0	0.0	0%
1982	2027	149.7	62.8	3181.51	88.5	43.7	44.9	45.5	0.0	0.0	0%
1983	2028	72.9	67.8	3183.23	84.7	26.2	58.5	59.1	0.0	0.0	0%
1984	2029	143.6	65.3	3182.90	131.2	74.2	57.0	57.6	0.0	0.0	0%
1985	2030	37.4	43.7	3176.41	67.6	3.3	64.3	65.0	0.0	0.0	0%
1986	2031	201.8	63.9	3182.86	136.4	80.6	55.8	56.4	0.0	0.0	0%
1987	2032	107.8	59.9	3182.04	130.6	66.3	64.2	64.7	0.0	0.0	0%
1988	2033	31.6	30.9	3172.11	63.5	3.3	60.2	60.7	0.0	0.0	0%
1989	2034	38.6	17.5	3167.01	29.2	3.3	25.9	64.6	-38.7	-28.0	-60%
1990	2035	48.5	21.8	3169.26	48.9	3.3	45.5	61.3	-15.8	-11.4	-26%
1991	2036	288.1	43.2	3177.72	236.6	185.3	51.4	52.0	0.0	0.0	0%
1992	2037	33.6	42.6	3178.52	45.5	3.3	42.2	42.8	0.0	0.0	0%
1993	2038	156.4	63.0	3184.47	106.6	74.4	32.3	32.7	0.0	0.0	0%
1994	2039	92.1	49.5	3180.80	121.4	55.3	66.0	66.6	0.0	0.0	0%
1995	2040	104.5	49.3	3181.52	73.4	27.0	46.4	47.2	0.0	0.0	0%
1996	2041	115.9	56.3	3182.94	98.8	48.8	50.1	50.3	0.0	0.0	0%
1997	2042	257.9	62.8	3185.77	234.6	193.9	40.7	41.0	0.0	0.0	0%
Mean		123.5	65.9	3180.29	115.3	60.2	55.1	57.8	-2.2	-1.7	-3%
Min		26.1	17.5	3165.34	27.6	3.3	24.3	32.7	(43.9)	(31.8)	-64%
10 pctl		38.0	39.3	3172.92	57.5	3.3	43.3	46.8	0.0	0.0	0%
25 pctl		57.8	49.5	3178.52	68.6	3.3	50.1	53.5	0.0	0.0	0%
Median		92.1	66.2	3182.04	86.5	32.5	56.3	57.6	0.0	0.0	0%
75 pctl		149.7	81.7	3183.24	130.6	74.2	62.4	64.6	0.0	0.0	0%
90 pctl		252.1	91.1	3184.43	218.7	163.9	66.0	66.9	0.0	0.0	0%
Max		562.7	100.2	3185.77	471.4	421.2	77.6	78.3	0.0	0.0	0%

NOTE: Target reservoir elevation Dec. thru Oct. at 3187.2 feet and Nov. at 3184.0 feet.

Table 4 - No Action Annual Water Supply
Angostura Reservoir with 10,000 irrigated acres and minimum elevation of 3163.0 feet

Hist. Year	Fut. Year	Historic Inflow (cfs)	EOM Content (kaf)	EOM Elev. (Feet)	Total Disch. (cfs)	River Disch. (cfs)	Canal Disch. (cfs)	Canal Req. (cfs)	Irr. Short (kaf)	Irr. Short (kaf)	Irr. Short (%)
1953	1998	88.4	102.9	3185.20	105.5	51.3	54.1	54.5	0.0	0.0	0%
1954	1999	57.8	90.6	3182.39	64.0	3.3	60.7	61.1	0.0	0.0	0%
1955	2000	213.7	101.2	3185.24	175.5	129.4	46.1	46.6	0.0	0.0	0%
1956	2001	58.3	95.2	3183.98	71.4	20.5	50.9	51.1	0.0	0.0	0%
1957	2002	211.8	95.6	3184.28	182.9	139.4	43.5	44.0	0.0	0.0	0%
1958	2003	139.6	100.6	3185.61	129.1	78.9	50.1	50.7	0.0	0.0	0%
1959	2004	51.0	91.1	3183.56	56.7	3.3	53.4	54.0	0.0	0.0	0%
1960	2005	37.5	72.0	3178.57	66.8	3.3	63.5	64.1	0.0	0.0	0%
1961	2006	26.1	42.5	3169.13	51.2	3.3	47.9	55.8	-7.9	-5.7	-14%
1962	2007	562.7	77.1	3179.74	471.2	430.0	41.2	41.6	0.0	0.0	0%
1963	2008	127.2	93.2	3184.95	120.9	76.4	44.5	45.0	0.0	0.0	0%
1964	2009	67.5	82.0	3182.36	79.5	25.2	54.4	54.8	0.0	0.0	0%
1965	2010	179.9	87.4	3183.94	143.5	104.4	39.1	39.5	0.0	0.0	0%
1966	2011	63.6	85.9	3183.81	71.6	20.5	51.1	51.5	0.0	0.0	0%
1967	2012	243.4	87.6	3184.49	217.8	174.5	43.3	43.8	0.0	0.0	0%
1968	2013	95.7	89.0	3185.04	83.4	45.9	37.5	38.1	0.0	0.0	0%
1969	2014	128.8	86.5	3184.63	126.4	74.2	52.2	52.7	0.0	0.0	0%
1970	2015	44.6	73.4	3181.45	61.9	5.8	56.1	56.6	0.0	0.0	0%
1971	2016	263.8	76.1	3182.51	230.0	184.0	46.0	46.4	0.0	0.0	0%
1972	2017	70.4	81.9	3184.20	56.7	16.1	40.6	41.2	0.0	0.0	0%
1973	2018	107.3	82.9	3184.72	89.9	46.1	43.7	44.1	0.0	0.0	0%
1974	2019	58.7	71.5	3181.87	82.2	32.5	49.7	50.2	0.0	0.0	0%
1975	2020	67.4	67.3	3181.21	51.6	3.3	48.3	48.9	0.0	0.0	0%
1976	2021	61.3	67.2	3181.55	48.0	3.3	44.6	45.1	0.0	0.0	0%
1977	2022	47.4	60.8	3180.03	47.5	3.3	44.2	44.5	0.0	0.0	0%
1978	2023	394.1	79.5	3184.96	356.8	310.5	46.3	46.6	0.0	0.0	0%
1979	2024	95.1	80.7	3185.57	86.8	42.6	44.2	44.5	0.0	0.0	0%
1980	2025	63.2	69.3	3182.90	75.0	22.5	52.6	53.2	0.0	0.0	0%
1981	2026	48.9	54.7	3179.36	51.2	3.3	47.9	48.1	0.0	0.0	0%
1982	2027	149.7	70.3	3183.69	108.6	71.8	36.8	37.2	0.0	0.0	0%
1983	2028	72.9	71.1	3184.19	74.4	26.6	47.8	48.4	0.0	0.0	0%
1984	2029	143.6	68.9	3183.89	133.2	86.6	46.6	47.1	0.0	0.0	0%
1985	2030	37.4	53.1	3179.72	55.8	3.3	52.5	53.2	0.0	0.0	0%
1986	2031	201.8	68.6	3184.24	154.8	109.3	45.4	46.2	0.0	0.0	0%
1987	2032	107.8	63.6	3183.16	119.7	67.2	52.6	52.9	0.0	0.0	0%
1988	2033	31.6	42.1	3177.04	52.4	3.3	49.1	49.7	0.0	0.0	0%
1989	2034	38.6	25.5	3170.79	47.3	3.3	44.0	52.9	-8.9	-6.4	-17%
1990	2035	48.5	22.5	3169.63	49.2	3.3	45.9	50.2	-4.3	-3.1	-9%
1991	2036	288.1	45.7	3178.28	228.9	186.8	42.1	42.5	0.0	0.0	0%
1992	2037	33.6	50.6	3181.19	38.0	3.3	34.7	35.0	0.0	0.0	0%
1993	2038	156.4	65.6	3185.28	121.2	94.7	26.5	26.7	0.0	0.0	0%
1994	2039	92.1	53.6	3182.26	109.6	55.6	54.0	54.5	0.0	0.0	0%
1995	2040	104.5	54.5	3183.04	77.3	39.2	38.1	38.6	0.0	0.0	0%
1996	2041	115.9	59.2	3183.91	99.5	58.4	41.1	41.2	0.0	0.0	0%
1997	2042	257.9	63.8	3186.02	240.5	207.2	33.4	33.5	0.0	0.0	0%
Mean		123.5	71.7	3182.08	114.8	68.4	46.4	47.3	-0.5	-0.4	-1%
Min		26.1	22.5	3169.13	38.0	3.3	26.5	26.7	(8.9)	(6.4)	-17%
10 pctl		38.0	47.7	3178.39	50.0	3.3	37.7	38.3	0.0	0.0	0%
25 pctl		57.8	60.8	3181.21	56.7	3.3	43.3	43.8	0.0	0.0	0%
Median		92.1	71.5	3183.56	83.4	42.6	46.1	47.1	0.0	0.0	0%
75 pctl		149.7	86.5	3184.49	129.1	86.6	51.1	52.9	0.0	0.0	0%
90 pctl		252.1	94.4	3185.22	224.4	180.2	54.1	54.7	0.0	0.0	0%
Max		562.7	102.9	3186.02	471.2	430.0	63.5	64.1	0.0	0.0	0%

NOTE: Target reservoir elevation Dec. thru Oct. at 3187.2 feet and Nov. at 3184.0 feet.

Table 5 - Recreation Annual Water Supply
Angostura Reservoir with 12,218 irrigated acres and minimum elevation of 3170.0 feet

Hist. Year	Fut. Year	Historic Inflow (cfs)	EOM Content (kaf)	EOM Elev. (Feet)	Total Disch. (cfs)	River Disch. (cfs)	Canal Disch. (cfs)	Canal Req. (cfs)	Irr. Short (cfs)	Irr. Short (kaf)	Irr. Short (%)
1953	1998	88.4	97.1	3183.76	121.3	55.4	65.9	66.6	0.0	0.0	0%
1954	1999	57.8	75.1	3178.16	77.6	3.3	74.2	74.7	0.0	0.0	0%
1955	2000	213.7	91.5	3182.67	147.8	91.4	56.4	56.9	0.0	0.0	0%
1956	2001	58.3	89.7	3182.46	86.7	24.8	61.9	62.4	0.0	0.0	0%
1957	2002	211.8	86.9	3182.12	179.4	126.2	53.2	53.7	0.0	0.0	0%
1958	2003	139.6	92.0	3183.58	130.8	69.5	61.4	61.9	0.0	0.0	0%
1959	2004	51.0	79.0	3180.43	68.6	3.3	65.3	66.0	0.0	0.0	0%
1960	2005	37.5	58.4	3174.56	55.8	3.3	52.5	78.3	-25.8	-18.7	-33%
1961	2006	26.1	46.0	3170.88	20.5	3.3	17.2	68.2	-51.0	-36.9	-75%
1962	2007	562.7	76.2	3180.20	503.1	452.9	50.2	50.8	0.0	0.0	0%
1963	2008	127.2	86.2	3183.20	125.1	70.7	54.5	55.0	0.0	0.0	0%
1964	2009	67.5	71.4	3179.50	82.3	16.1	66.2	67.0	0.0	0.0	0%
1965	2010	179.9	77.8	3181.52	132.9	85.0	48.0	48.3	0.0	0.0	0%
1966	2011	63.6	81.0	3182.60	77.3	14.9	62.4	63.0	0.0	0.0	0%
1967	2012	243.4	78.3	3182.16	225.9	173.3	52.6	53.5	0.0	0.0	0%
1968	2013	95.7	78.8	3182.58	79.0	33.1	45.8	46.5	0.0	0.0	0%
1969	2014	128.8	76.4	3182.09	134.0	70.1	63.8	64.4	0.0	0.0	0%
1970	2015	44.6	57.7	3176.79	67.5	3.3	64.2	69.2	-5.0	-3.6	-7%
1971	2016	263.8	64.8	3179.34	222.5	166.3	56.3	56.7	0.0	0.0	0%
1972	2017	70.4	74.1	3182.25	56.7	7.0	49.8	50.3	0.0	0.0	0%
1973	2018	107.3	77.2	3183.33	76.2	22.5	53.6	53.9	0.0	0.0	0%
1974	2019	58.7	67.5	3180.60	93.3	32.5	60.7	61.3	0.0	0.0	0%
1975	2020	67.4	56.2	3177.93	62.4	3.3	59.1	59.8	0.0	0.0	0%
1976	2021	61.3	49.4	3176.27	58.0	3.3	54.6	55.1	0.0	0.0	0%
1977	2022	47.4	39.8	3173.17	48.6	3.3	45.3	54.3	-9.1	-6.6	-17%
1978	2023	394.1	70.7	3182.58	336.8	280.2	56.6	57.0	0.0	0.0	0%
1979	2024	95.1	75.1	3184.24	88.4	34.2	54.2	54.4	0.0	0.0	0%
1980	2025	63.2	64.6	3181.52	80.0	15.5	64.5	65.0	0.0	0.0	0%
1981	2026	48.9	43.2	3175.54	61.9	3.3	58.6	58.8	0.0	0.0	0%
1982	2027	149.7	60.3	3180.92	88.9	44.0	44.9	45.5	0.0	0.0	0%
1983	2028	72.9	65.9	3182.69	89.4	30.9	58.5	59.1	0.0	0.0	0%
1984	2029	143.6	61.7	3181.88	134.4	77.4	57.0	57.6	0.0	0.0	0%
1985	2030	37.4	41.1	3175.70	59.4	3.3	56.1	65.0	-8.9	-6.4	-14%
1986	2031	201.8	61.7	3182.35	138.9	83.0	55.8	56.4	0.0	0.0	0%
1987	2032	107.8	59.9	3182.02	130.7	66.5	64.2	64.7	0.0	0.0	0%
1988	2033	31.6	35.3	3174.58	48.1	3.3	44.8	60.7	-15.9	-11.5	-26%
1989	2034	38.6	28.2	3172.43	28.3	3.3	24.9	64.6	-39.7	-28.7	-61%
1990	2035	48.5	32.2	3174.18	47.5	3.3	44.2	61.3	-17.2	-12.4	-28%
1991	2036	288.1	43.7	3178.29	258.2	206.8	51.4	52.0	0.0	0.0	0%
1992	2037	33.6	37.8	3176.91	45.5	3.3	42.2	42.8	0.0	0.0	0%
1993	2038	156.4	57.3	3183.05	101.6	69.3	32.3	32.7	0.0	0.0	0%
1994	2039	92.1	49.5	3180.80	121.4	55.3	66.0	66.6	0.0	0.0	0%
1995	2040	104.5	46.3	3180.64	80.9	34.5	46.4	47.2	0.0	0.0	0%
1996	2041	115.9	52.1	3181.87	99.5	49.5	50.1	50.3	0.0	0.0	0%
1997	2042	257.9	57.4	3184.33	238.8	198.1	40.7	41.0	0.0	0.0	0%
Mean		123.5	63.8	3179.97	115.8	62.3	53.5	57.8	-3.8	-2.9	-6%
Min		26.1	28.2	3170.88	20.5	3.3	17.2	32.7	(51.0)	(36.9)	-75%
10 pctl		38.0	40.3	3174.57	48.3	3.3	43.0	46.8	(13.2)	(10.5)	-22%
25 pctl		57.8	49.5	3177.93	62.4	3.3	48.0	53.5	0.0	0.0	0%
Median		92.1	64.6	3181.52	88.4	33.1	54.6	57.6	0.0	0.0	0%
75 pctl		149.7	77.2	3182.58	132.9	70.7	61.4	64.6	0.0	0.0	0%
90 pctl		252.1	86.6	3183.28	224.6	170.5	65.0	66.9	0.0	0.0	0%
Max		562.7	97.1	3184.33	503.1	452.9	74.2	78.3	0.0	0.0	0%

NOTE: Target elev. Dec. thru May 3187.2, June 3186, July 3185, and Aug. thru Nov. 3184.0 feet.

Table 6 - Recreation Annual Water Supply
Angostura Reservoir with 10,000 irrigated acres and minimum elevation of 3170.0 feet

Hist. Year	Fut. Year	Historic Inflow (cfs)	EOM Content (kaf)	EOM Elev. (Feet)	Total Disch. (cfs)	River Disch. (cfs)	Canal Disch. (cfs)	Canal Req. (cfs)	Irr. Short (kaf)	Irr. Short (kaf)	Irr. Short (%)
1953	1998	88.4	99.7	3184.42	113.2	59.0	54.1	54.5	0.0	0.0	0%
1954	1999	57.8	85.4	3181.02	64.0	3.3	60.7	61.1	0.0	0.0	0%
1955	2000	213.7	95.4	3183.76	168.7	122.6	46.1	46.6	0.0	0.0	0%
1956	2001	58.3	92.1	3183.15	79.1	28.2	50.9	51.1	0.0	0.0	0%
1957	2002	211.8	91.4	3183.23	178.8	135.3	43.5	44.0	0.0	0.0	0%
1958	2003	139.6	94.6	3184.21	137.0	86.9	50.1	50.7	0.0	0.0	0%
1959	2004	51.0	84.2	3181.83	56.7	3.3	53.4	54.0	0.0	0.0	0%
1960	2005	37.5	65.4	3176.61	66.8	3.3	63.5	64.1	0.0	0.0	0%
1961	2006	26.1	46.3	3171.00	21.5	3.3	18.2	55.8	-37.6	-27.2	-67%
1962	2007	562.7	77.6	3180.53	498.3	457.1	41.2	41.6	0.0	0.0	0%
1963	2008	127.2	89.3	3184.01	122.1	77.6	44.5	45.0	0.0	0.0	0%
1964	2009	67.5	76.7	3181.01	80.2	25.9	54.4	54.8	0.0	0.0	0%
1965	2010	179.9	81.6	3182.55	138.9	99.8	39.1	39.5	0.0	0.0	0%
1966	2011	63.6	83.0	3183.10	78.0	26.9	51.1	51.5	0.0	0.0	0%
1967	2012	243.4	80.3	3182.66	223.4	180.1	43.3	43.8	0.0	0.0	0%
1968	2013	95.7	82.6	3183.52	76.8	39.3	37.5	38.1	0.0	0.0	0%
1969	2014	128.8	80.2	3183.08	134.5	82.3	52.2	52.7	0.0	0.0	0%
1970	2015	44.6	65.2	3179.19	59.4	3.3	56.1	56.6	0.0	0.0	0%
1971	2016	263.8	70.5	3181.05	227.9	181.9	46.0	46.4	0.0	0.0	0%
1972	2017	70.4	77.8	3183.20	57.4	16.8	40.6	41.2	0.0	0.0	0%
1973	2018	107.3	79.9	3184.00	82.4	38.7	43.7	44.1	0.0	0.0	0%
1974	2019	58.7	71.5	3181.87	82.2	32.5	49.7	50.2	0.0	0.0	0%
1975	2020	67.4	66.2	3180.91	54.3	6.0	48.3	48.9	0.0	0.0	0%
1976	2021	61.3	65.5	3181.09	48.0	3.3	44.6	45.1	0.0	0.0	0%
1977	2022	47.4	59.2	3179.57	47.5	3.3	44.2	44.5	0.0	0.0	0%
1978	2023	394.1	74.1	3183.68	359.8	313.5	46.3	46.6	0.0	0.0	0%
1979	2024	95.1	75.9	3184.42	88.3	44.1	44.2	44.5	0.0	0.0	0%
1980	2025	63.2	68.8	3182.79	69.8	17.3	52.6	53.2	0.0	0.0	0%
1981	2026	48.9	54.7	3179.36	51.2	3.3	47.9	48.1	0.0	0.0	0%
1982	2027	149.7	67.0	3182.93	108.9	72.1	36.8	37.2	0.0	0.0	0%
1983	2028	72.9	68.7	3183.53	80.7	32.9	47.8	48.4	0.0	0.0	0%
1984	2029	143.6	65.2	3182.92	135.4	88.8	46.6	47.1	0.0	0.0	0%
1985	2030	37.4	48.4	3178.25	55.8	3.3	52.5	53.2	0.0	0.0	0%
1986	2031	201.8	64.7	3183.23	148.9	103.5	45.4	46.2	0.0	0.0	0%
1987	2032	107.8	62.4	3182.81	122.8	70.2	52.6	52.9	0.0	0.0	0%
1988	2033	31.6	40.1	3176.33	52.4	3.3	49.1	49.7	0.0	0.0	0%
1989	2034	38.6	29.5	3172.99	30.1	3.3	26.8	52.9	-26.1	-18.9	-49%
1990	2035	48.5	33.0	3174.45	47.8	3.3	44.5	50.2	-5.7	-4.1	-11%
1991	2036	288.1	46.2	3179.07	250.4	208.3	42.1	42.5	0.0	0.0	0%
1992	2037	33.6	45.7	3179.63	38.0	3.3	34.7	35.0	0.0	0.0	0%
1993	2038	156.4	59.9	3183.91	116.0	89.5	26.5	26.7	0.0	0.0	0%
1994	2039	92.1	53.6	3182.26	109.6	55.6	54.0	54.5	0.0	0.0	0%
1995	2040	104.5	51.6	3182.23	84.9	46.8	38.1	38.6	0.0	0.0	0%
1996	2041	115.9	55.3	3182.82	100.4	59.3	41.1	41.2	0.0	0.0	0%
1997	2042	257.9	59.0	3184.77	241.1	207.7	33.4	33.5	0.0	0.0	0%
Mean		123.5	68.6	3181.40	115.3	70.0	45.3	47.3	-1.5	-1.2	-3%
Min		26.1	29.5	3171.00	21.5	3.3	18.2	26.7	(37.6)	(27.2)	-67%
10 pctl		38.0	46.2	3177.27	47.9	3.3	35.5	38.3	0.0	0.0	0%
25 pctl		57.8	59.0	3180.53	57.4	3.3	41.2	43.8	0.0	0.0	0%
Median		92.1	68.7	3182.66	82.4	39.3	46.0	47.1	0.0	0.0	0%
75 pctl		149.7	80.3	3183.23	135.4	88.8	51.1	52.9	0.0	0.0	0%
90 pctl		252.1	90.6	3184.00	226.1	181.2	54.1	54.7	0.0	0.0	0%
Max		562.7	99.7	3184.77	498.3	457.1	63.5	64.1	0.0	0.0	0%

NOTE: Target elev. Dec. thru May 3187.2, June 3186, July 3185, and Aug. thru Nov. 3184.0 feet.

Table 7 - Improved Efficiency Annual Water Supply
Angostura Reservoir with 12,218 irrigated acres and minimum elevation of 3163.0 feet

Hist. Year	Fut. Year	Historic Inflow (cfs)	EOM Content (kaf)	EOM Elev. (Feet)	Total Disch. (cfs)	River Disch. (cfs)	Canal Disch. (cfs)	Canal Req. (cfs)	Irr. Short (cfs)	Irr. Short (kaf)	Irr. Short (%)
1953	1998	88.4	103.1	3185.26	103.8	50.8	53.0	53.5	0.0	0.0	0%
1954	1999	57.8	91.6	3182.65	62.8	3.3	59.4	60.1	0.0	0.0	0%
1955	2000	213.7	101.6	3185.33	177.5	132.2	45.3	45.8	0.0	0.0	0%
1956	2001	58.3	95.5	3184.05	70.5	20.6	50.0	50.2	0.0	0.0	0%
1957	2002	211.8	95.9	3184.36	183.7	140.9	42.8	43.2	0.0	0.0	0%
1958	2003	139.6	100.6	3185.62	129.1	79.8	49.3	49.8	0.0	0.0	0%
1959	2004	51.0	91.4	3183.64	55.9	3.3	52.6	53.1	0.0	0.0	0%
1960	2005	37.5	73.0	3178.85	65.7	3.3	62.4	63.0	0.0	0.0	0%
1961	2006	26.1	43.3	3169.41	52.7	3.3	49.4	54.8	-5.4	-3.9	-10%
1962	2007	562.7	77.2	3179.75	471.2	430.7	40.5	40.9	0.0	0.0	0%
1963	2008	127.2	93.4	3184.98	120.4	76.7	43.7	44.2	0.0	0.0	0%
1964	2009	67.5	82.4	3182.46	79.1	26.0	53.1	53.9	0.0	0.0	0%
1965	2010	179.9	87.6	3184.00	144.2	105.9	38.3	38.8	0.0	0.0	0%
1966	2011	63.6	86.2	3183.89	70.7	20.5	50.2	50.6	0.0	0.0	0%
1967	2012	243.4	87.9	3184.56	218.3	175.7	42.7	43.0	0.0	0.0	0%
1968	2013	95.7	89.1	3185.06	83.7	46.6	37.1	37.4	0.0	0.0	0%
1969	2014	128.8	86.6	3184.66	125.8	74.6	51.2	51.8	0.0	0.0	0%
1970	2015	44.6	73.8	3181.57	61.3	6.3	55.0	55.6	0.0	0.0	0%
1971	2016	263.8	76.5	3182.62	230.4	185.2	45.2	45.6	0.0	0.0	0%
1972	2017	70.4	82.1	3184.25	56.7	16.7	40.1	40.5	0.0	0.0	0%
1973	2018	107.3	83.2	3184.78	90.3	47.2	43.1	43.4	0.0	0.0	0%
1974	2019	58.7	71.8	3181.96	81.4	32.5	48.8	49.3	0.0	0.0	0%
1975	2020	67.4	68.1	3181.44	50.9	3.3	47.6	48.1	0.0	0.0	0%
1976	2021	61.3	68.5	3181.89	47.3	3.3	44.0	44.3	0.0	0.0	0%
1977	2022	47.4	62.5	3180.50	46.8	3.3	43.5	43.7	0.0	0.0	0%
1978	2023	394.1	79.8	3185.05	359.2	313.6	45.6	45.8	0.0	0.0	0%
1979	2024	95.1	80.8	3185.59	86.8	43.4	43.4	43.8	0.0	0.0	0%
1980	2025	63.2	69.6	3182.97	74.4	22.5	51.9	52.3	0.0	0.0	0%
1981	2026	48.9	55.4	3179.57	50.3	3.3	47.0	47.3	0.0	0.0	0%
1982	2027	149.7	70.8	3183.82	110.0	73.9	36.2	36.6	0.0	0.0	0%
1983	2028	72.9	71.4	3184.26	73.6	26.6	47.0	47.5	0.0	0.0	0%
1984	2029	143.6	69.2	3183.98	133.4	87.7	45.7	46.3	0.0	0.0	0%
1985	2030	37.4	53.8	3179.97	55.2	3.3	51.8	52.2	0.0	0.0	0%
1986	2031	201.8	69.0	3184.33	156.2	111.3	44.9	45.4	0.0	0.0	0%
1987	2032	107.8	63.9	3183.25	118.9	67.3	51.6	52.0	0.0	0.0	0%
1988	2033	31.6	42.9	3177.33	51.7	3.3	48.4	48.8	0.0	0.0	0%
1989	2034	38.6	26.2	3171.07	48.4	3.3	45.1	52.0	-6.9	-5.0	-13%
1990	2035	48.5	22.7	3169.70	49.2	3.3	45.9	49.3	-3.4	-2.5	-7%
1991	2036	288.1	45.6	3178.34	227.8	187.0	40.8	41.8	0.0	0.0	0%
1992	2037	33.6	51.2	3181.36	37.4	3.3	34.1	34.4	0.0	0.0	0%
1993	2038	156.4	65.8	3185.33	122.2	96.2	26.0	26.3	0.0	0.0	0%
1994	2039	92.1	53.9	3182.36	108.8	55.6	53.2	53.6	0.0	0.0	0%
1995	2040	104.5	54.8	3183.13	77.7	40.2	37.5	37.9	0.0	0.0	0%
1996	2041	115.9	57.7	3184.00	93.8	53.7	40.2	40.5	0.0	0.0	0%
1997	2042	257.9	63.9	3186.04	241.0	208.2	32.8	33.0	0.0	0.0	0%
Mean		123.5	72.0	3182.20	114.6	68.9	45.7	46.5	-0.3	-0.3	-1%
Min		26.1	22.7	3169.41	37.4	3.3	26.0	26.3	(6.9)	(5.0)	-13%
10 pctl		38.0	47.8	3178.55	49.7	3.3	37.3	37.6	0.0	0.0	0%
25 pctl		57.8	62.5	3181.44	56.7	3.3	42.7	43.0	0.0	0.0	0%
Median		92.1	71.8	3183.64	83.7	43.4	45.6	46.3	0.0	0.0	0%
75 pctl		149.7	86.6	3184.56	129.1	87.7	50.2	52.0	0.0	0.0	0%
90 pctl		252.1	94.7	3185.30	224.0	181.4	53.1	53.8	0.0	0.0	0%
Max		562.7	103.1	3186.04	471.2	430.7	62.4	63.0	0.0	0.0	0%

NOTE: Target reservoir elevation Dec. thru Oct. at 3187.2 feet and Nov. at 3184.0 feet.

Table 8 - Improved Efficiency Annual Water Supply
Angostura Reservoir with 10,000 irrigated acres and minimum elevation of 3163.0 feet

Hist. Year	Fut. Year	Historic Inflow (cfs)	EOM Content (kaf)	EOM Elev. (Feet)	Total Disch. (cfs)	River Disch. (cfs)	Canal Disch. (cfs)	Canal Req. (cfs)	Irr. Short (cfs)	Irr. Short (kaf)	Irr. Short (%)
1953	1998	88.4	105.2	3185.77	98.0	54.5	43.4	43.8	0.0	0.0	0%
1954	1999	57.8	96.4	3183.82	59.4	10.5	48.9	49.2	0.0	0.0	0%
1955	2000	213.7	103.4	3185.77	186.6	149.5	37.1	37.5	0.0	0.0	0%
1956	2001	58.3	97.5	3184.56	64.1	23.4	40.8	41.1	0.0	0.0	0%
1957	2002	211.8	98.8	3185.03	189.9	154.9	35.0	35.4	0.0	0.0	0%
1958	2003	139.6	101.0	3185.71	128.9	88.5	40.4	40.8	0.0	0.0	0%
1959	2004	51.0	94.7	3184.44	46.4	3.3	43.0	43.5	0.0	0.0	0%
1960	2005	37.5	83.3	3181.75	54.5	3.3	51.2	51.5	0.0	0.0	0%
1961	2006	26.1	59.1	3175.16	47.9	3.3	44.5	44.9	0.0	0.0	0%
1962	2007	562.7	83.4	3181.96	493.7	460.4	33.3	33.4	0.0	0.0	0%
1963	2008	127.2	95.0	3185.36	116.8	81.0	35.8	36.2	0.0	0.0	0%
1964	2009	67.5	86.1	3183.40	75.0	31.5	43.6	44.1	0.0	0.0	0%
1965	2010	179.9	89.9	3184.58	151.6	120.0	31.6	31.8	0.0	0.0	0%
1966	2011	63.6	89.5	3184.70	61.6	20.5	41.1	41.5	0.0	0.0	0%
1967	2012	243.4	90.5	3185.16	224.7	189.9	34.7	35.2	0.0	0.0	0%
1968	2013	95.7	90.7	3185.42	86.2	56.0	30.2	30.6	0.0	0.0	0%
1969	2014	128.8	88.0	3185.00	121.2	79.2	41.9	42.4	0.0	0.0	0%
1970	2015	44.6	77.6	3182.63	56.9	11.8	45.1	45.5	0.0	0.0	0%
1971	2016	263.8	80.1	3183.55	233.1	196.0	37.1	37.4	0.0	0.0	0%
1972	2017	70.4	84.5	3184.86	57.4	24.6	32.8	33.1	0.0	0.0	0%
1973	2018	107.3	85.8	3185.39	95.2	60.1	35.1	35.5	0.0	0.0	0%
1974	2019	58.7	75.0	3182.89	72.6	32.7	39.9	40.3	0.0	0.0	0%
1975	2020	67.4	74.5	3183.10	48.3	9.4	38.9	39.4	0.0	0.0	0%
1976	2021	61.3	77.6	3184.14	41.7	5.8	35.9	36.2	0.0	0.0	0%
1977	2022	47.4	76.0	3183.99	38.9	3.3	35.6	35.8	0.0	0.0	0%
1978	2023	394.1	82.6	3185.76	380.6	343.4	37.2	37.5	0.0	0.0	0%
1979	2024	95.1	81.4	3185.72	86.3	50.6	35.7	35.8	0.0	0.0	0%
1980	2025	63.2	72.8	3183.88	65.2	22.7	42.5	42.8	0.0	0.0	0%
1981	2026	48.9	64.8	3182.21	41.8	3.3	38.5	38.7	0.0	0.0	0%
1982	2027	149.7	76.0	3185.17	126.2	96.7	29.5	29.9	0.0	0.0	0%
1983	2028	72.9	74.0	3184.94	65.7	27.1	38.5	38.9	0.0	0.0	0%
1984	2029	143.6	72.1	3184.71	135.0	97.5	37.5	37.9	0.0	0.0	0%
1985	2030	37.4	61.6	3182.23	45.6	3.3	42.3	42.8	0.0	0.0	0%
1986	2031	201.8	71.8	3185.11	170.1	133.4	36.7	37.2	0.0	0.0	0%
1987	2032	107.8	66.8	3184.09	110.3	67.9	42.4	42.6	0.0	0.0	0%
1988	2033	31.6	51.7	3180.30	43.1	3.3	39.8	40.0	0.0	0.0	0%
1989	2034	38.6	38.6	3176.27	45.5	3.3	42.1	42.5	0.0	0.0	0%
1990	2035	48.5	37.0	3176.11	43.1	3.3	39.8	40.4	0.0	0.0	0%
1991	2036	288.1	52.7	3181.17	242.7	209.1	33.6	34.2	0.0	0.0	0%
1992	2037	33.6	57.4	3183.09	31.1	3.3	27.8	28.2	0.0	0.0	0%
1993	2038	156.4	67.2	3185.75	133.5	112.2	21.3	21.5	0.0	0.0	0%
1994	2039	92.1	57.3	3183.42	99.2	55.8	43.4	43.9	0.0	0.0	0%
1995	2040	104.5	58.9	3184.25	80.7	50.1	30.6	31.1	0.0	0.0	0%
1996	2041	115.9	60.2	3184.68	91.9	59.0	32.9	33.1	0.0	0.0	0%
1997	2042	257.9	64.5	3186.19	243.1	216.1	26.9	27.0	0.0	0.0	0%
Mean		123.5	76.7	3183.63	114.0	76.3	37.7	38.0	0.0	0.0	0%
Min		26.1	37.0	3175.16	31.1	3.3	21.3	21.5	0.0	0.0	0%
10 pctl		38.0	57.3	3181.40	43.1	3.3	30.3	30.8	0.0	0.0	0%
25 pctl		57.8	64.8	3183.09	54.5	9.4	34.7	35.2	0.0	0.0	0%
Median		92.1	77.6	3184.44	86.2	50.6	37.5	37.9	0.0	0.0	0%
75 pctl		149.7	89.5	3185.16	133.5	97.5	42.1	42.5	0.0	0.0	0%
90 pctl		252.1	97.1	3185.74	229.7	193.6	43.5	44.0	0.0	0.0	0%
Max		562.7	105.2	3186.19	493.7	460.4	51.2	51.5	0.0	0.0	0%

NOTE: Target reservoir elevation Dec. thru Oct. at 3187.2 feet and Nov. at 3184.0 feet.

Table 9 - Improved Efficiency Annual Water Supply
Angostura Reservoir with 12,218 irrigated acres and minimum elevation of 3170.0 feet

Hist. Year	Fut. Year	Historic Inflow (cfs)	EOM Content (kaf)	EOM Elev. (Feet)	Total Disch. (cfs)	River Disch. (cfs)	Canal Disch. (cfs)	Canal Req. (cfs)	Irr. Short (cfs)	Irr. Short (kaf)	Irr. Short (%)
1953	1998	88.4	100.0	3184.48	112.4	59.3	53.0	53.5	0.0	0.0	0%
1954	1999	57.8	86.4	3181.29	62.8	3.3	59.4	60.1	0.0	0.0	0%
1955	2000	213.7	95.8	3183.87	170.8	125.5	45.3	45.8	0.0	0.0	0%
1956	2001	58.3	92.4	3183.21	78.4	28.4	50.0	50.2	0.0	0.0	0%
1957	2002	211.8	91.7	3183.32	178.9	136.1	42.8	43.2	0.0	0.0	0%
1958	2003	139.6	94.7	3184.24	137.4	88.1	49.3	49.8	0.0	0.0	0%
1959	2004	51.0	84.6	3181.93	55.9	3.3	52.6	53.1	0.0	0.0	0%
1960	2005	37.5	66.5	3176.96	65.7	3.3	62.4	63.0	0.0	0.0	0%
1961	2006	26.1	46.9	3171.21	23.5	3.3	20.2	54.8	-34.7	-25.1	-63%
1962	2007	562.7	77.7	3180.56	497.9	457.4	40.5	40.9	0.0	0.0	0%
1963	2008	127.2	89.6	3184.07	122.0	78.3	43.7	44.2	0.0	0.0	0%
1964	2009	67.5	77.2	3181.14	80.0	26.8	53.1	53.9	0.0	0.0	0%
1965	2010	179.9	81.9	3182.62	139.4	101.2	38.3	38.8	0.0	0.0	0%
1966	2011	63.6	83.1	3183.13	78.1	27.9	50.2	50.6	0.0	0.0	0%
1967	2012	243.4	80.4	3182.69	223.3	180.7	42.7	43.0	0.0	0.0	0%
1968	2013	95.7	82.8	3183.56	76.8	39.7	37.1	37.4	0.0	0.0	0%
1969	2014	128.8	80.4	3183.13	134.2	83.0	51.2	51.8	0.0	0.0	0%
1970	2015	44.6	66.0	3179.44	58.3	3.3	55.0	55.6	0.0	0.0	0%
1971	2016	263.8	71.1	3181.21	229.0	183.8	45.2	45.6	0.0	0.0	0%
1972	2017	70.4	78.1	3183.26	57.4	17.3	40.1	40.5	0.0	0.0	0%
1973	2018	107.3	80.1	3184.05	83.0	39.9	43.1	43.4	0.0	0.0	0%
1974	2019	58.7	71.8	3181.96	81.4	32.5	48.8	49.3	0.0	0.0	0%
1975	2020	67.4	66.7	3181.05	54.4	6.8	47.6	48.1	0.0	0.0	0%
1976	2021	61.3	66.2	3181.29	47.3	3.3	44.0	44.3	0.0	0.0	0%
1977	2022	47.4	60.5	3179.93	46.8	3.3	43.5	43.7	0.0	0.0	0%
1978	2023	394.1	74.3	3183.76	361.5	316.0	45.6	45.8	0.0	0.0	0%
1979	2024	95.1	75.9	3184.44	88.3	44.9	43.4	43.8	0.0	0.0	0%
1980	2025	63.2	69.1	3182.85	69.3	17.4	51.9	52.3	0.0	0.0	0%
1981	2026	48.9	55.4	3179.57	50.3	3.3	47.0	47.3	0.0	0.0	0%
1982	2027	149.7	67.4	3183.05	110.3	74.1	36.2	36.6	0.0	0.0	0%
1983	2028	72.9	68.9	3183.59	80.0	33.0	47.0	47.5	0.0	0.0	0%
1984	2029	143.6	65.5	3183.00	135.4	89.7	45.7	46.3	0.0	0.0	0%
1985	2030	37.4	49.2	3178.51	55.2	3.3	51.8	52.2	0.0	0.0	0%
1986	2031	201.8	65.0	3183.33	150.3	105.4	44.9	45.4	0.0	0.0	0%
1987	2032	107.8	62.5	3182.86	122.3	70.7	51.6	52.0	0.0	0.0	0%
1988	2033	31.6	40.7	3176.59	51.7	3.3	48.4	48.8	0.0	0.0	0%
1989	2034	38.6	30.0	3173.19	31.0	3.3	27.7	52.0	-24.2	-17.6	-47%
1990	2035	48.5	33.1	3174.50	48.0	3.3	44.7	49.3	-4.7	-3.4	-9%
1991	2036	288.1	46.1	3179.13	249.3	208.5	40.8	41.8	0.0	0.0	0%
1992	2037	33.6	46.4	3179.86	37.4	3.3	34.1	34.4	0.0	0.0	0%
1993	2038	156.4	60.1	3183.98	117.3	91.3	26.0	26.3	0.0	0.0	0%
1994	2039	92.1	53.9	3182.36	108.8	55.6	53.2	53.6	0.0	0.0	0%
1995	2040	104.5	51.9	3182.33	85.3	47.8	37.5	37.9	0.0	0.0	0%
1996	2041	115.9	53.8	3182.90	100.3	60.1	40.2	40.5	0.0	0.0	0%
1997	2042	257.9	59.1	3184.81	241.3	208.5	32.8	33.0	0.0	0.0	0%
Mean		123.5	68.9	3181.51	115.3	70.6	44.7	46.5	-1.4	-1.1	-3%
Min		26.1	30.0	3171.21	23.5	3.3	20.2	26.3	(34.7)	(25.1)	-63%
10 pctl		38.0	46.6	3177.58	47.6	3.3	34.9	37.6	0.0	0.0	0%
25 pctl		57.8	59.1	3180.56	57.4	3.3	40.5	43.0	0.0	0.0	0%
Median		92.1	68.9	3182.69	83.0	39.9	45.2	46.3	0.0	0.0	0%
75 pctl		149.7	80.4	3183.33	135.4	89.7	50.2	52.0	0.0	0.0	0%
90 pctl		252.1	90.9	3184.06	226.7	182.6	53.1	53.8	0.0	0.0	0%
Max		562.7	100.0	3184.81	497.9	457.4	62.4	63.0	0.0	0.0	0%

NOTE: Target elev. Dec. thru May 3187.2, June 3186, July 3185, and Aug. thru Nov. 3184.0 feet.

Table 10 - Improved Efficiency Annual Water Supply
Angostura Reservoir with 10,000 irrigated acres and minimum elevation of 3170.0 feet

Hist. Year	Fut. Year	Historic Inflow (cfs)	EOM Content (kaf)	EOM Elev. (Feet)	Total Disch. (cfs)	River Disch. (cfs)	Canal Disch. (cfs)	Canal Req. (cfs)	Irr. Short (cfs)	Irr. Short (kaf)	Irr. Short (%)
1953	1998	88.4	102.1	3185.00	105.7	62.2	43.4	43.8	0.0	0.0	0%
1954	1999	57.8	94.4	3183.34	52.9	4.0	48.9	49.2	0.0	0.0	0%
1955	2000	213.7	98.8	3184.62	186.5	149.4	37.1	37.5	0.0	0.0	0%
1956	2001	58.3	94.4	3183.77	72.0	31.2	40.8	41.1	0.0	0.0	0%
1957	2002	211.8	94.3	3183.95	183.4	148.4	35.0	35.4	0.0	0.0	0%
1958	2003	139.6	95.4	3184.41	137.9	97.5	40.4	40.8	0.0	0.0	0%
1959	2004	51.0	88.8	3183.05	46.4	3.3	43.0	43.5	0.0	0.0	0%
1960	2005	37.5	77.8	3180.33	54.5	3.3	51.2	51.5	0.0	0.0	0%
1961	2006	26.1	55.2	3173.95	43.4	3.3	40.1	44.9	-4.8	-3.5	-11%
1962	2007	562.7	78.8	3180.83	494.1	460.8	33.3	33.4	0.0	0.0	0%
1963	2008	127.2	91.8	3184.61	120.2	84.4	35.8	36.2	0.0	0.0	0%
1964	2009	67.5	81.3	3182.22	77.6	34.0	43.6	44.1	0.0	0.0	0%
1965	2010	179.9	84.4	3183.28	145.0	113.4	31.6	31.8	0.0	0.0	0%
1966	2011	63.6	84.2	3183.39	79.1	38.0	41.1	41.5	0.0	0.0	0%
1967	2012	243.4	81.7	3183.02	220.0	185.3	34.7	35.2	0.0	0.0	0%
1968	2013	95.7	85.7	3184.29	75.1	44.9	30.2	30.6	0.0	0.0	0%
1969	2014	128.8	82.7	3183.68	135.1	93.2	41.9	42.4	0.0	0.0	0%
1970	2015	44.6	72.6	3181.36	48.4	3.3	45.1	45.5	0.0	0.0	0%
1971	2016	263.8	76.1	3182.55	236.3	199.2	37.1	37.4	0.0	0.0	0%
1972	2017	70.4	80.6	3183.90	57.9	25.1	32.8	33.1	0.0	0.0	0%
1973	2018	107.3	81.8	3184.45	88.4	53.3	35.1	35.5	0.0	0.0	0%
1974	2019	58.7	75.0	3182.89	72.6	32.7	39.9	40.3	0.0	0.0	0%
1975	2020	67.4	71.4	3182.31	56.0	17.1	38.9	39.4	0.0	0.0	0%
1976	2021	61.3	72.4	3182.89	42.1	6.3	35.9	36.2	0.0	0.0	0%
1977	2022	47.4	71.2	3182.84	38.9	3.3	35.6	35.8	0.0	0.0	0%
1978	2023	394.1	76.8	3184.41	378.0	340.8	37.2	37.5	0.0	0.0	0%
1979	2024	95.1	76.4	3184.55	88.4	52.7	35.7	35.8	0.0	0.0	0%
1980	2025	63.2	71.7	3183.59	63.0	20.6	42.5	42.8	0.0	0.0	0%
1981	2026	48.9	63.5	3181.88	41.8	3.3	38.5	38.7	0.0	0.0	0%
1982	2027	149.7	71.5	3184.11	125.1	95.7	29.5	29.9	0.0	0.0	0%
1983	2028	72.9	71.1	3184.20	73.2	34.7	38.5	38.9	0.0	0.0	0%
1984	2029	143.6	68.3	3183.76	135.8	98.3	37.5	37.9	0.0	0.0	0%
1985	2030	37.4	56.7	3180.89	45.6	3.3	42.3	42.8	0.0	0.0	0%
1986	2031	201.8	67.9	3184.15	164.4	127.7	36.7	37.2	0.0	0.0	0%
1987	2032	107.8	64.6	3183.48	115.9	73.5	42.4	42.6	0.0	0.0	0%
1988	2033	31.6	48.3	3179.24	43.1	3.3	39.8	40.0	0.0	0.0	0%
1989	2034	38.6	36.1	3175.42	43.7	3.3	40.4	42.5	-2.2	-1.6	-5%
1990	2035	48.5	35.4	3175.52	43.1	3.3	39.8	40.4	0.0	0.0	0%
1991	2036	288.1	49.3	3180.18	248.1	214.5	33.6	34.2	0.0	0.0	0%
1992	2037	33.6	52.9	3181.85	31.1	3.3	27.8	28.2	0.0	0.0	0%
1993	2038	156.4	61.9	3184.49	128.8	107.5	21.3	21.5	0.0	0.0	0%
1994	2039	92.1	57.3	3183.42	99.2	55.8	43.4	43.9	0.0	0.0	0%
1995	2040	104.5	56.0	3183.47	88.2	57.7	30.6	31.1	0.0	0.0	0%
1996	2041	115.9	56.4	3183.66	96.4	63.5	32.9	33.1	0.0	0.0	0%
1997	2042	257.9	60.1	3185.07	244.1	217.1	26.9	27.0	0.0	0.0	0%
Mean		123.5	72.8	3182.63	114.8	77.3	37.5	38.0	-0.2	-0.1	-0%
Min		26.1	35.4	3173.95	31.1	3.3	21.3	21.5	(4.8)	(3.5)	-11%
10 pctl		38.0	53.8	3180.24	43.1	3.3	30.3	30.8	0.0	0.0	0%
25 pctl		57.8	61.9	3182.22	52.9	4.0	34.7	35.2	0.0	0.0	0%
Median		92.1	72.6	3183.42	88.2	52.7	37.5	37.9	0.0	0.0	0%
75 pctl		149.7	82.7	3184.15	135.8	98.3	41.1	42.5	0.0	0.0	0%
90 pctl		252.1	94.4	3184.52	229.8	193.6	43.4	44.0	0.0	0.0	0%
Max		562.7	102.1	3185.07	494.1	460.8	51.2	51.5	0.0	0.0	0%

NOTE: Target elev. Dec. thru May 3187.2, June 3186, July 3185, and Aug. thru Nov. 3184.0 feet.

Table 11 - Improved Efficiency Annual Water Supply
Angostura Reservoir with 12,218 irrigated acres and minimum elevation of 3175.0 feet

Hist. Year	Fut. Year	Historic Inflow (cfs)	EOM Content (kaf)	EOM Elev. (Feet)	Total Disch. (cfs)	River Disch. (cfs)	Canal Disch. (cfs)	Canal Req. (cfs)	Irr. Short (cfs)	Irr. Short (kaf)	Irr. Short (%)
1953	1998	88.4	100.0	3184.48	112.4	59.3	53.0	53.5	0.0	0.0	0%
1954	1999	57.8	86.4	3181.29	62.8	3.3	59.4	60.1	0.0	0.0	0%
1955	2000	213.7	95.8	3183.87	170.8	125.5	45.3	45.8	0.0	0.0	0%
1956	2001	58.3	92.4	3183.21	78.4	28.4	50.0	50.2	0.0	0.0	0%
1957	2002	211.8	91.7	3183.32	178.9	136.1	42.8	43.2	0.0	0.0	0%
1958	2003	139.6	94.7	3184.24	137.4	88.1	49.3	49.8	0.0	0.0	0%
1959	2004	51.0	84.6	3181.93	55.9	3.3	52.6	53.1	0.0	0.0	0%
1960	2005	37.5	70.9	3178.46	49.5	3.3	46.2	63.0	-16.8	-12.2	-27%
1961	2006	26.1	59.7	3175.58	19.3	3.3	16.0	54.8	-38.8	-28.1	-71%
1962	2007	562.7	82.2	3181.95	516.1	475.6	40.5	40.9	0.0	0.0	0%
1963	2008	127.2	89.6	3184.07	122.0	78.3	43.7	44.2	0.0	0.0	0%
1964	2009	67.5	77.2	3181.14	80.0	26.8	53.1	53.9	0.0	0.0	0%
1965	2010	179.9	81.9	3182.62	139.4	101.2	38.3	38.8	0.0	0.0	0%
1966	2011	63.6	83.1	3183.13	78.1	27.9	50.2	50.6	0.0	0.0	0%
1967	2012	243.4	80.4	3182.69	223.3	180.7	42.7	43.0	0.0	0.0	0%
1968	2013	95.7	82.8	3183.56	76.8	39.7	37.1	37.4	0.0	0.0	0%
1969	2014	128.8	80.4	3183.13	134.2	83.0	51.2	51.8	0.0	0.0	0%
1970	2015	44.6	66.6	3179.65	55.6	3.3	52.3	55.6	-3.3	-2.4	-6%
1971	2016	263.8	71.7	3181.37	231.3	186.2	45.2	45.6	0.0	0.0	0%
1972	2017	70.4	78.1	3183.26	57.4	17.3	40.1	40.5	0.0	0.0	0%
1973	2018	107.3	80.1	3184.05	83.0	39.9	43.1	43.4	0.0	0.0	0%
1974	2019	58.7	71.8	3181.96	81.4	32.5	48.8	49.3	0.0	0.0	0%
1975	2020	67.4	66.7	3181.05	54.4	6.8	47.6	48.1	0.0	0.0	0%
1976	2021	61.3	66.2	3181.29	47.3	3.3	44.0	44.3	0.0	0.0	0%
1977	2022	47.4	60.5	3179.93	46.8	3.3	43.5	43.7	0.0	0.0	0%
1978	2023	394.1	74.3	3183.76	361.5	316.0	45.6	45.8	0.0	0.0	0%
1979	2024	95.1	75.9	3184.44	88.3	44.9	43.4	43.8	0.0	0.0	0%
1980	2025	63.2	69.1	3182.85	69.3	17.4	51.9	52.3	0.0	0.0	0%
1981	2026	48.9	55.4	3179.57	50.3	3.3	47.0	47.3	0.0	0.0	0%
1982	2027	149.7	67.4	3183.05	110.3	74.1	36.2	36.6	0.0	0.0	0%
1983	2028	72.9	68.9	3183.59	80.0	33.0	47.0	47.5	0.0	0.0	0%
1984	2029	143.6	65.5	3183.00	135.4	89.7	45.7	46.3	0.0	0.0	0%
1985	2030	37.4	50.4	3178.97	50.8	3.3	47.5	52.2	-4.8	-3.5	-9%
1986	2031	201.8	65.8	3183.56	154.7	109.8	44.9	45.4	0.0	0.0	0%
1987	2032	107.8	62.5	3182.86	122.3	70.7	51.6	52.0	0.0	0.0	0%
1988	2033	31.6	44.2	3177.94	39.9	3.3	36.5	48.8	-12.3	-8.9	-25%
1989	2034	38.6	39.6	3176.86	26.7	3.3	23.4	52.0	-28.6	-20.7	-55%
1990	2035	48.5	43.7	3178.39	46.2	3.3	42.9	49.3	-6.5	-4.7	-13%
1991	2036	288.1	49.7	3180.50	264.2	223.4	40.8	41.8	0.0	0.0	0%
1992	2037	33.6	46.4	3179.86	37.4	3.3	34.1	34.4	0.0	0.0	0%
1993	2038	156.4	60.1	3183.98	117.3	91.3	26.0	26.3	0.0	0.0	0%
1994	2039	92.1	53.9	3182.36	108.8	55.6	53.2	53.6	0.0	0.0	0%
1995	2040	104.5	51.9	3182.33	85.3	47.8	37.5	37.9	0.0	0.0	0%
1996	2041	115.9	53.8	3182.90	100.3	60.1	40.2	40.5	0.0	0.0	0%
1997	2042	257.9	59.1	3184.81	241.3	208.5	32.8	33.0	0.0	0.0	0%
Mean		123.5	70.1	3181.93	115.2	71.5	43.6	46.5	-2.5	-1.9	-5%
Min		26.1	39.6	3175.58	19.3	3.3	16.0	26.3	(38.8)	(28.1)	-71%
10 pctl		38.0	50.0	3178.67	46.5	3.3	34.9	37.6	(5.8)	(4.4)	-12%
25 pctl		57.8	59.7	3181.05	55.6	3.3	40.2	43.0	0.0	0.0	0%
Median		92.1	69.1	3182.69	83.0	39.9	44.9	46.3	0.0	0.0	0%
75 pctl		149.7	81.9	3183.56	135.4	89.7	49.3	52.0	0.0	0.0	0%
90 pctl		252.1	90.9	3184.06	228.1	184.0	52.5	53.8	0.0	0.0	0%
Max		562.7	100.0	3184.81	516.1	475.6	59.4	63.0	0.0	0.0	0%

NOTE: Target elev. Dec. thru May 3187.2, June 3186, July 3185, and Aug. thru Nov. 3184.0 feet.

Table 12 - Improved Efficiency Annual Water Supply
Angostura Reservoir with 10,000 irrigated acres and minimum elevation of 3175.0 feet

Hist. Year	Fut. Year	Historic Inflow (cfs)	EOM Content (kaf)	EOM Elev. (Feet)	Total Disch. (cfs)	River Disch. (cfs)	Canal Disch. (cfs)	Canal Req. (cfs)	Irr. Short (cfs)	Irr. Short (kaf)	Irr. Short (%)
1953	1998	88.4	102.1	3185.00	105.7	62.2	43.4	43.8	0.0	0.0	0%
1954	1999	57.8	94.4	3183.34	52.9	4.0	48.9	49.2	0.0	0.0	0%
1955	2000	213.7	98.8	3184.62	186.5	149.4	37.1	37.5	0.0	0.0	0%
1956	2001	58.3	94.4	3183.77	72.0	31.2	40.8	41.1	0.0	0.0	0%
1957	2002	211.8	94.3	3183.95	183.4	148.4	35.0	35.4	0.0	0.0	0%
1958	2003	139.6	95.4	3184.41	137.9	97.5	40.4	40.8	0.0	0.0	0%
1959	2004	51.0	88.8	3183.05	46.4	3.3	43.0	43.5	0.0	0.0	0%
1960	2005	37.5	77.8	3180.33	54.5	3.3	51.2	51.5	0.0	0.0	0%
1961	2006	26.1	61.3	3176.07	24.2	3.3	20.8	44.9	-24.0	-17.4	-54%
1962	2007	562.7	83.3	3182.22	512.2	479.0	33.3	33.4	0.0	0.0	0%
1963	2008	127.2	91.8	3184.61	120.2	84.4	35.8	36.2	0.0	0.0	0%
1964	2009	67.5	81.3	3182.22	77.6	34.0	43.6	44.1	0.0	0.0	0%
1965	2010	179.9	84.4	3183.28	145.0	113.4	31.6	31.8	0.0	0.0	0%
1966	2011	63.6	84.2	3183.39	79.1	38.0	41.1	41.5	0.0	0.0	0%
1967	2012	243.4	81.7	3183.02	220.0	185.3	34.7	35.2	0.0	0.0	0%
1968	2013	95.7	85.7	3184.29	75.1	44.9	30.2	30.6	0.0	0.0	0%
1969	2014	128.8	82.7	3183.68	135.1	93.2	41.9	42.4	0.0	0.0	0%
1970	2015	44.6	72.6	3181.36	48.4	3.3	45.1	45.5	0.0	0.0	0%
1971	2016	263.8	76.1	3182.55	236.3	199.2	37.1	37.4	0.0	0.0	0%
1972	2017	70.4	80.6	3183.90	57.9	25.1	32.8	33.1	0.0	0.0	0%
1973	2018	107.3	81.8	3184.45	88.4	53.3	35.1	35.5	0.0	0.0	0%
1974	2019	58.7	75.0	3182.89	72.6	32.7	39.9	40.3	0.0	0.0	0%
1975	2020	67.4	71.4	3182.31	56.0	17.1	38.9	39.4	0.0	0.0	0%
1976	2021	61.3	72.4	3182.89	42.1	6.3	35.9	36.2	0.0	0.0	0%
1977	2022	47.4	71.2	3182.84	38.9	3.3	35.6	35.8	0.0	0.0	0%
1978	2023	394.1	76.8	3184.41	378.0	340.8	37.2	37.5	0.0	0.0	0%
1979	2024	95.1	76.4	3184.55	88.4	52.7	35.7	35.8	0.0	0.0	0%
1980	2025	63.2	71.7	3183.59	63.0	20.6	42.5	42.8	0.0	0.0	0%
1981	2026	48.9	63.5	3181.88	41.8	3.3	38.5	38.7	0.0	0.0	0%
1982	2027	149.7	71.5	3184.11	125.1	95.7	29.5	29.9	0.0	0.0	0%
1983	2028	72.9	71.1	3184.20	73.2	34.7	38.5	38.9	0.0	0.0	0%
1984	2029	143.6	68.3	3183.76	135.8	98.3	37.5	37.9	0.0	0.0	0%
1985	2030	37.4	56.7	3180.89	45.6	3.3	42.3	42.8	0.0	0.0	0%
1986	2031	201.8	67.9	3184.15	164.4	127.7	36.7	37.2	0.0	0.0	0%
1987	2032	107.8	64.6	3183.48	115.9	73.5	42.4	42.6	0.0	0.0	0%
1988	2033	31.6	48.3	3179.24	43.1	3.3	39.8	40.0	0.0	0.0	0%
1989	2034	38.6	40.9	3177.29	28.6	3.3	25.3	42.5	-17.2	-12.5	-40%
1990	2035	48.5	45.6	3179.05	43.1	3.3	39.8	40.4	0.0	0.0	0%
1991	2036	288.1	52.5	3181.35	261.3	227.7	33.6	34.2	0.0	0.0	0%
1992	2037	33.6	52.9	3181.85	31.1	3.3	27.8	28.2	0.0	0.0	0%
1993	2038	156.4	61.9	3184.49	128.8	107.5	21.3	21.5	0.0	0.0	0%
1994	2039	92.1	57.3	3183.42	99.2	55.8	43.4	43.9	0.0	0.0	0%
1995	2040	104.5	56.0	3183.47	88.2	57.7	30.6	31.1	0.0	0.0	0%
1996	2041	115.9	56.4	3183.66	96.4	63.5	32.9	33.1	0.0	0.0	0%
1997	2042	257.9	60.1	3185.07	244.1	217.1	26.9	27.0	0.0	0.0	0%
Mean		123.5	73.4	3182.85	114.7	78.0	36.8	38.0	-0.9	-0.7	-2%
Min		26.1	40.9	3176.07	24.2	3.3	20.8	21.5	(24.0)	(17.4)	-54%
10 pctl		38.0	54.1	3180.55	41.9	3.3	28.5	30.8	0.0	0.0	0%
25 pctl		57.8	61.9	3182.22	52.9	4.0	33.3	35.2	0.0	0.0	0%
Median		92.1	72.6	3183.42	88.2	52.7	37.1	37.9	0.0	0.0	0%
75 pctl		149.7	83.3	3184.15	135.8	98.3	41.1	42.5	0.0	0.0	0%
90 pctl		252.1	94.4	3184.52	229.8	193.6	43.4	44.0	0.0	0.0	0%
Max		562.7	102.1	3185.07	512.2	479.0	51.2	51.5	0.0	0.0	0%

NOTE: Target elev. Dec. thru May 3187.2, June 3186, July 3185, and Aug. thru Nov. 3184.0 feet.

Table 13 - Improved Efficiency Annual Water Supply
Angostura Reservoir with 12,218 irrigated acres and minimum elevation of 3184.0 feet

Hist. Year	Fut. Year	Historic Inflow (cfs)	EOM Content (kaf)	EOM Elev. (Feet)	Total Disch. (cfs)	River Disch. (cfs)	Canal Disch. (cfs)	Canal Req. (cfs)	Irr. Short (cfs)	Irr. Short (kaf)	Irr. Short (%)
1953	1998	88.4	104.3	3185.53	97.9	59.3	38.6	53.5	-14.9	-10.8	-28%
1954	1999	57.8	99.9	3184.67	47.5	10.0	37.5	60.1	-22.5	-16.3	-38%
1955	2000	213.7	100.9	3185.15	199.0	157.1	41.9	45.8	-3.9	-2.8	-8%
1956	2001	58.3	100.3	3185.20	52.7	28.7	24.0	50.2	-26.2	-18.9	-52%
1957	2002	211.8	98.7	3185.03	201.8	164.6	37.2	43.2	-6.1	-4.4	-14%
1958	2003	139.6	96.8	3184.74	132.4	89.9	42.4	49.8	-7.4	-5.3	-15%
1959	2004	51.0	94.9	3184.49	38.2	6.8	31.4	53.1	-21.7	-15.7	-41%
1960	2005	37.5	95.0	3184.71	29.5	3.3	26.2	63.0	-36.7	-26.6	-58%
1961	2006	26.1	91.5	3184.11	15.7	3.9	11.8	54.8	-43.0	-31.1	-78%
1962	2007	562.7	94.5	3185.03	552.2	520.5	31.8	40.9	-9.1	-6.6	-22%
1963	2008	127.2	93.6	3185.04	118.3	88.0	30.3	44.2	-14.0	-10.1	-32%
1964	2009	67.5	89.1	3184.21	60.9	36.9	23.9	53.9	-29.9	-21.7	-56%
1965	2010	179.9	90.2	3184.67	165.1	134.8	30.2	38.8	-8.6	-6.2	-22%
1966	2011	63.6	85.1	3183.61	75.5	34.7	40.8	50.6	-9.8	-7.1	-19%
1967	2012	243.4	86.3	3184.16	211.4	186.3	25.2	43.0	-17.9	-12.9	-42%
1968	2013	95.7	88.6	3184.95	86.5	57.0	29.4	37.4	-8.0	-5.8	-21%
1969	2014	128.8	87.5	3184.91	118.4	89.0	29.3	51.8	-22.4	-16.2	-43%
1970	2015	44.6	86.0	3184.78	35.4	15.0	20.4	55.6	-35.2	-25.5	-63%
1971	2016	263.8	85.5	3184.88	253.6	231.0	22.6	45.6	-23.1	-16.7	-51%
1972	2017	70.4	84.8	3184.93	60.8	37.7	23.1	40.5	-17.3	-12.6	-43%
1973	2018	107.3	83.6	3184.90	96.5	62.7	33.8	43.4	-9.5	-6.9	-22%
1974	2019	58.7	82.7	3184.87	51.0	35.8	15.2	49.3	-34.1	-24.7	-69%
1975	2020	67.4	80.9	3184.68	58.7	37.0	21.7	48.1	-26.4	-19.1	-55%
1976	2021	61.3	80.4	3184.81	51.1	23.3	27.8	44.3	-16.5	-11.9	-37%
1977	2022	47.4	78.3	3184.54	37.5	7.0	30.5	43.7	-13.2	-9.6	-30%
1978	2023	394.1	79.0	3184.93	384.4	345.5	38.9	45.8	-6.9	-5.0	-15%
1979	2024	95.1	77.9	3184.91	86.7	50.1	36.6	43.8	-7.1	-5.2	-16%
1980	2025	63.2	77.1	3184.94	51.0	23.2	27.9	52.3	-24.4	-17.7	-47%
1981	2026	48.9	73.6	3184.38	43.3	5.5	37.8	47.3	-9.5	-6.9	-20%
1982	2027	149.7	74.7	3184.88	137.9	101.7	36.2	36.6	0.0	0.0	0%
1983	2028	72.9	74.6	3185.08	63.0	36.9	26.1	47.5	-21.4	-15.5	-45%
1984	2029	143.6	73.5	3185.07	133.8	110.0	23.9	46.3	-22.4	-16.2	-48%
1985	2030	37.4	70.5	3184.62	28.5	6.1	22.4	52.2	-29.8	-21.6	-57%
1986	2031	201.8	71.7	3185.12	190.9	157.9	33.0	45.4	-12.4	-9.0	-27%
1987	2032	107.8	70.4	3185.06	98.2	72.5	25.7	52.0	-26.3	-19.0	-51%
1988	2033	31.6	67.2	3184.57	23.3	5.0	18.3	48.8	-30.5	-22.1	-62%
1989	2034	38.6	66.2	3184.57	29.7	9.9	19.8	52.0	-32.1	-23.3	-62%
1990	2035	48.5	67.1	3185.02	39.8	15.6	24.3	49.3	-25.0	-18.1	-51%
1991	2036	288.1	64.8	3184.74	278.5	259.6	18.8	41.8	-23.0	-16.6	-55%
1992	2037	33.6	64.1	3184.84	25.0	5.3	19.7	34.4	-14.7	-10.7	-43%
1993	2038	156.4	64.3	3185.14	147.0	122.3	24.7	26.3	-1.6	-1.1	-6%
1994	2039	92.1	63.2	3185.12	81.8	60.7	21.1	53.6	-32.5	-23.5	-61%
1995	2040	104.5	62.8	3185.26	96.0	78.4	17.6	37.9	-20.3	-14.7	-54%
1996	2041	115.9	61.2	3184.97	93.6	68.9	24.7	40.5	-15.8	-11.4	-39%
1997	2042	257.9	61.4	3185.43	244.4	218.2	26.2	33.0	-6.8	-4.9	-21%
Mean		123.5	81.0	3184.83	113.9	86.1	27.8	46.5	-18.7	-13.5	-39%
Min		26.1	61.2	3183.61	15.7	3.3	11.8	26.3	(43.0)	(31.1)	-78%
10 pctl		38.0	64.2	3184.43	29.6	5.7	19.2	37.6	(32.3)	(23.5)	-61%
25 pctl		57.8	70.5	3184.67	47.5	15.6	22.6	43.0	(26.2)	(19.0)	-54%
Median		92.1	80.9	3184.90	86.5	57.0	26.2	46.3	(17.9)	(12.9)	-42%
75 pctl		149.7	90.2	3185.04	137.9	110.0	33.0	52.0	(9.5)	(6.7)	-22%
90 pctl		252.1	98.0	3185.14	231.2	205.4	38.3	53.8	(6.9)	(4.9)	-15%
Max		562.7	104.3	3185.53	552.2	520.5	42.4	63.0	0.0	0.0	0%

NOTE: Target elev. Dec. thru May 3187.2, June 3186, July 3185, and Aug. thru Nov. 3184.0 feet.

Table 14 - Improved Efficiency Annual Water Supply
Angostura Reservoir with 10,000 irrigated acres and minimum elevation of 3184.0 feet

Hist. Year	Fut. Year	Historic Inflow (cfs)	EOM Content (kaf)	EOM Elev. (Feet)	Total Disch. (cfs)	River Disch. (cfs)	Canal Disch. (cfs)	Canal Req. (cfs)	Irr. Short (cfs)	Irr. Short (kaf)	Irr. Short (%)
1953	1998	88.4	104.3	3185.53	97.9	62.8	35.1	43.8	-8.7	-6.3	-20%
1954	1999	57.8	100.0	3184.69	47.5	11.5	36.0	49.2	-13.2	-9.5	-27%
1955	2000	213.7	100.9	3185.15	199.0	162.5	36.5	37.5	0.0	0.0	0%
1956	2001	58.3	100.3	3185.20	52.7	31.5	21.2	41.1	-19.8	-14.4	-48%
1957	2002	211.8	98.9	3185.07	201.8	168.6	33.2	35.4	-2.2	-1.6	-6%
1958	2003	139.6	96.9	3184.75	132.3	97.5	34.8	40.8	-6.0	-4.3	-15%
1959	2004	51.0	95.1	3184.55	38.1	9.7	28.3	43.5	-15.1	-10.9	-35%
1960	2005	37.5	95.2	3184.76	29.5	5.0	24.5	51.5	-27.0	-19.5	-52%
1961	2006	26.1	91.5	3184.12	15.7	3.9	11.8	44.9	-33.0	-23.9	-74%
1962	2007	562.7	94.5	3185.03	552.2	523.9	28.4	33.4	-5.1	-3.7	-15%
1963	2008	127.2	93.8	3185.07	118.3	91.1	27.2	36.2	-9.0	-6.5	-25%
1964	2009	67.5	89.2	3184.22	60.9	38.6	22.3	44.1	-21.8	-15.8	-49%
1965	2010	179.9	90.2	3184.67	165.1	138.9	26.1	31.8	-5.7	-4.1	-18%
1966	2011	63.6	85.3	3183.67	75.6	39.2	36.4	41.5	-5.1	-3.7	-12%
1967	2012	243.4	86.3	3184.16	211.4	190.2	21.2	35.2	-14.0	-10.1	-40%
1968	2013	95.7	88.8	3184.99	86.5	58.1	28.3	30.6	-2.3	-1.6	-7%
1969	2014	128.8	87.5	3184.91	118.4	93.7	24.7	42.4	-17.7	-12.8	-42%
1970	2015	44.6	86.1	3184.81	35.4	16.1	19.3	45.5	-26.3	-19.0	-58%
1971	2016	263.8	85.5	3184.88	253.6	233.0	20.6	37.4	-16.7	-12.1	-45%
1972	2017	70.4	84.8	3184.94	60.7	39.6	21.2	33.1	-11.9	-8.6	-36%
1973	2018	107.3	83.8	3184.94	96.4	67.6	28.9	35.5	-6.6	-4.8	-19%
1974	2019	58.7	82.9	3184.94	50.8	36.2	14.6	40.3	-25.7	-18.6	-64%
1975	2020	67.4	80.9	3184.68	58.7	38.8	19.9	39.4	-19.4	-14.1	-49%
1976	2021	61.3	80.5	3184.84	51.1	25.6	25.6	36.2	-10.7	-7.7	-29%
1977	2022	47.4	78.5	3184.60	37.5	7.7	29.7	35.8	-6.0	-4.4	-17%
1978	2023	394.1	79.0	3184.93	384.4	352.7	31.8	37.5	-5.7	-4.2	-15%
1979	2024	95.1	78.0	3184.92	86.8	56.7	30.1	35.8	-5.7	-4.2	-16%
1980	2025	63.2	77.2	3184.97	50.9	25.3	25.6	42.8	-17.1	-12.4	-40%
1981	2026	48.9	73.7	3184.40	43.3	10.0	33.3	38.7	-5.4	-3.9	-14%
1982	2027	149.7	74.8	3184.90	137.9	108.4	29.5	29.9	0.0	0.0	0%
1983	2028	72.9	74.6	3185.08	63.0	38.6	24.4	38.9	-14.5	-10.5	-37%
1984	2029	143.6	73.5	3185.07	133.8	112.1	21.8	37.9	-16.1	-11.7	-42%
1985	2030	37.4	70.7	3184.67	28.4	6.1	22.3	42.8	-20.5	-14.8	-48%
1986	2031	201.8	71.7	3185.14	190.9	162.3	28.6	37.2	-8.6	-6.2	-23%
1987	2032	107.8	70.4	3185.06	98.2	75.3	22.9	42.6	-19.7	-14.2	-46%
1988	2033	31.6	67.4	3184.61	23.3	5.0	18.3	40.0	-21.7	-15.7	-54%
1989	2034	38.6	66.4	3184.63	29.7	10.3	19.4	42.5	-23.2	-16.8	-54%
1990	2035	48.5	67.1	3185.03	39.8	16.9	22.9	40.4	-17.5	-12.7	-43%
1991	2036	288.1	64.8	3184.74	278.6	260.7	17.9	34.2	-16.3	-11.8	-48%
1992	2037	33.6	64.4	3184.92	24.8	5.7	19.1	28.2	-9.1	-6.6	-32%
1993	2038	156.4	64.3	3185.14	147.0	126.5	20.5	21.5	-1.0	-0.7	-5%
1994	2039	92.1	63.5	3185.18	81.7	60.8	20.9	43.9	-22.9	-16.6	-52%
1995	2040	104.5	62.9	3185.29	96.0	79.9	16.1	31.1	-15.0	-10.8	-48%
1996	2041	115.9	61.2	3184.97	93.6	71.2	22.5	33.1	-10.7	-7.7	-32%
1997	2042	257.9	61.4	3185.43	244.4	221.5	22.9	27.0	-4.1	-3.0	-15%
Mean		123.5	81.1	3184.85	113.9	88.8	25.0	38.0	-13.0	-9.5	-33%
Min		26.1	61.2	3183.67	15.7	3.9	11.8	21.5	(33.0)	(23.9)	-74%
10 pctl		38.0	64.4	3184.46	29.6	6.7	18.6	30.8	(23.1)	(16.7)	-53%
25 pctl		57.8	70.7	3184.68	47.5	16.9	20.9	35.2	(19.4)	(14.2)	-48%
Median		92.1	80.9	3184.92	86.5	58.1	24.4	37.9	(13.2)	(10.1)	-35%
75 pctl		149.7	90.2	3185.07	137.9	112.1	28.9	42.5	(5.7)	(4.2)	-16%
90 pctl		252.1	98.1	3185.17	231.2	209.0	34.2	44.0	(3.0)	(1.9)	-9%
Max		562.7	104.3	3185.53	552.2	523.9	36.5	51.5	0.0	0.0	0%

NOTE: Target elev. Dec. thru May 3187.2, June 3186, July 3185, and Aug. thru Nov. 3184.0 feet.